

**Nuclear Data Section  
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**Memo CP-D/758 (Rev.)**

**Date:** 8 August 2012  
**To:** Distribution  
**From:** N. Otsuka  
**Subject:** **Completeness checking (Frascati deuteron data compilation)**  
**Reference:** Memo CP-D/757

There is a laboratory report compiling deuteron-induced reaction cross sections prepared by A. Gentilini and B.V.Robuch, (ENEA, Frascati). S. Ganesan (NPDCI) provided me a copy of this report to perform completeness checking of deuteron activation cross sections compiled in EXFOR several years ago.

On the occasion of the completeness checking with Landolt-Börnstein compilation, I finalized the result of checking done with assistance of Lidija Vrapcenjak. Totally 139 articles compiled in the Frascati report was assessed as we did in Memo CP-D/757. We are missing 62 experiments in EXFOR.

	<b>Status of article</b>	<b>articles</b>	<b>(%)</b>
	Compiled	67	48
C	Not compiled. New entry must be created. (not in LB)	35	25
L	Not compiled. New entry must be created (also in LB)	26	19
S	Not compiled. But the work is compiled from another article.	2	1
X	The article is not available.	9	7
	<b>Sum</b>	<b>139</b>	<b>100</b>

Articles belonging to the 2<sup>nd</sup> (C), 3<sup>rd</sup> (L) and 4<sup>th</sup> (S) category require creation and revision of EXFOR entries, respectively. Centres are asked to assess articles and start compilation and revision of EXFOR entries.

All articles for compilation and revision summarized in two memos (Memo CP-D/757 and 758) will be registered to the NRDC article allocation web page (<http://www-nds.iaea.org/nrdc/alloc/>) as we usually do for old articles, and progress will be reviewed in the NRDC Meetings.

**Reference**

[1] A. Gentilini, B.V.Robouch, “Deuteron-nuclide reaction cross sections – a collection of data from literature”, ENEA Report RT/FUS/83/32 (1983).

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### Actions to Centres (2012-08-08)

**Actions:**

- C: The article must be compiled in a new entry. Send its entry number to NDS (=Valentina).  
 L: The article must be compiled in a new entry. Send its entry number to NDS (=Valentina). Also listed in Memo CP-D/757.  
 S: The article must be added as a secondary reference.  
 X: The article is not available at NDS. If possible, obtain the article and assess whether data for EXFOR compilation are given.

Ref.	1st Author	Typ	Publication	Vol	Issue	Page	Year	EXFOR	Centre	Action	Remark (Translation etc.)
132	I.B.Teplov+	J	JET	5		134	1957		CAJaD	C	J,ZET,32,165,1957
133	I.B.Teplov+	J	JET	6		1011	1957		CAJaD	C	J,ZET,33,1313,1957
106	P.P.Dmitriev+	J	SJA	22		386	1967		CAJaD	C	
3	V.A.Davidenko+	J	SJA/S	1958	5	7	1958		CAJaD	C	Addition to A1168. English translation of NRLMEN?
5	A.S.Ganeev+	J	SJA/S	1958	5	21	1958		CAJaD	C	Addition to A1171. English translation of NRLMEN?
119	A.S.Dovgilenko+	J	SNP	5		382	1967		CAJaD	C	J,YF,5,538,1967
129	I.B.Teplov+	J	JET	7		233	1958		CAJaD	L	J,ZET,34,334,1958
58	N.A.Vlasov+	J	SJA	2		189	1957		CAJAD	L	
95	P.P.Dmitriev+	J	SJA	18		228	1965		CAJaD	L	J,AE,18,184,1965
13	E.M.Balabanov+	J	SJA/S	1958	5	43	1958		CAJaD	X	A1172?
98	T.Nishi+	J	BCR	47		162	1969		JCPRG	L	partly E1881 and P0119
64	J.Nerlo Flores	J	PR	127		1246	1962	D0024	NDS	L	in compilation
104	I.De Betancourt+	J	RCA	12		206	1969	D0694	NDS	L	in compilation
70	R.Radicella+	J	ZP	150		653	1958	D0023	NDS	L	in compilation
117	E.L.Kelly	R	UCRL-1044				1950	D0490	NDS	S	See also J,JIN,9,193,1959. Major update?
121	A.Fleury+	J	JPR/C	27		C1-86	1966		NEA DB	C	
142	F.A.El Bedewi+	J	NP	8		71	1958		NEA DB	C	
131	J.R.Holt+	J	PPS/A	66		467	1953		NEA DB	C	
136	J.R.Holt+	J	PPS/A	66		565	1953		NEA DB	C	
85	R.Bilabel	J	RCA	15		13	1971		NEA DB	C	
52	M.-J.Lacroix+	R	EUR-3896			351	1968		NEA DB	C	
84	R.Bilabel	R	KFK-1171				1970		NEA DB	C	

100	H.F.Rohm	R	KFK-1447			1971		NEA DB	C	
113	A.Chevarier+	J	CR/B	270	182	1970		NEA DB	L	
101	R.Debuyst+	J	JIN	30	691	1968		NEA DB	L	
92	L.J.Gilly+	J	NP	55	375	1964		NEA DB	L	
77	M.Cogneau+	J	NP	79	203	1966		NEA DB	L	
80	M.Cogneau+	J	NP	79	203	1966		NEA DB	L	
50	K.Wohlleben+	J	RCA	8	78	1967		NEA DB	L	
110	J.Lange+	J	RCA	9	66	1968		NEA DB	L	
57	J.Lange+	J	RCA	11	121	1969		NEA DB	L	
105	R.Bock	J	ZP	164	546	1961		NEA DB	L	
109	R.Bock+	J	ZP	174	440	1963		NEA DB	L	
55	W.Kunz+	?	Nucl.Tables	1		1965		NEA DB	X	Pergamon Press
91	J.W.Irvine	J	CS	S	356	1949		NEA DB	X	J.Chem.Soc. (London) Suppl.
41	R.G.Jaeger	J?		3	152	1970		NEA DB	X	Engineer.Comprndum on Radiation Shielding (Springer)
62	J.W.Irvine+	J	JCP	16	686	1970		NNDC	C	
35	W.E.Bennett+	J	PR	71	11	1947		NNDC	C	
26	W.Whaling+	J	PR	75	688	1949		NNDC	C	
130	P.W.Davison	J	PR	75	757	1949		NNDC	C	
112	J.Jungerman	J	PR	79	632	1950		NNDC	C	
138	J.A.Harvey	J	PR	81	353	1951		NNDC	C	
42	L.W.Smith+	J	PR	83	1137	1951		NNDC	C	
143	J.S.King+	J	PR	89	1080	1953		NNDC	C	
141	M.M.Bretscher+	J	PR	96	103	1954		NNDC	C	
140	L.L.Lee+	J	PR	99	1384	1955		NNDC	C	
46	J.B.Marion+	J	PR	100	847	1955		NNDC	C	
54	J.B.Marion+	J	PR	103	676	1956		NNDC	C	
135	L.L.Lee+	J	PR	107	1340	1957		NNDC	C	
137	C.K.Bockelman+	J	PR	107	1366	1957		NNDC	C	
134	H.A.Enge+	J	PR	115	949	1959		NNDC	C	
120	G.L.Bate+	J	PR	131	722	1963		NNDC	C	

44	D.R.Goosman+	J	PR/C	1		1939	1970		NNDC	C	
12	C.J. Cook+	R	AECU-1834				1952		NNDC	C	
63	K.L.Hall	R	AECU-3126				1955		NNDC	C	
127	W.M.Gibson	R	UCRL-3493				1956		NNDC	C	
126	E.V.Luoma	R	UCRL-3495				1956		NNDC	C	
61	K.L.Hall+	J	JIN	9		193	1959		NNDC	L	
53	S.C.Snowdon	J	PR	78		299	1950		NNDC	L	
102	J.A.Miskel+	J	PR	84		700	1951		NNDC	L	
78	P.Kafalas+	J	PR	104		703	1956		NNDC	L	
128	A.Chetham-Strode+	J	PR	104		1314	1956		NNDC	L	
122	B.M.Foreman+	J	PR	116		382	1959		NNDC	L	
115	R.Vandenbosch+	J	PR	120		1313	1960		NNDC	L	Neutron data in 12212
56	L.H.Bowen+	J	PR	127		1698	1962		NNDC	L	
86	J.B.Natowitz+	J	PR	155		1352	1967		NNDC	L	
97	R.L.Wolke	R	NYO-2771-13				1966	P0115	NNDC	S	Major update required.
43	L.D.Stephens+	P	69STANF				1969		NNDC	X	Proc. 2nd Int.Conf. on Accelerator Dosimetry (Stanford, 1969)
69	S.O.Ring+	R	LBL-108				1954		NNDC	X	No such report in LBL library (2012-06-27)
87	R.L.Wolke	R	TID-21525				1965		NNDC	X	Difficult to obtain (2012-06-25)
125	R.Vandenbosch	R	UCRL-3858				1957		NNDC	X	
21	T.W.Bonner	J	NSA	4		6744	1960		NNDC	X	Nuclear Science Abstract